

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

1. (Currently amended) An apparatus for making a physiological test and/or delivery of drugs comprising:

an oral platform for collecting an oral sample;

a microchip mounted on or in the platform for making medical diagnoses and/or selectively providing controlled delivery of drugs, the microchip comprising at least one of a lab-on-a-chip system and a smart dispenser;

a shell substantially enclosing the microchip;

a stick connected to the platform to serve as a handle and electrical and fluidic conduit to and from the microchip and the platform, where the platform, microchip, and stick are mechanically combined together into a lollipop; and

an active cooperative base unit for selective and interchangeable communication with the microchip in one of a plurality of lollipops, ~~the base unit~~ and for selectively providing medical diagnosis and/or treatment related to the oral sample.

2. – 7. (Canceled).

8. (Previously presented) The apparatus of claim 1 further comprising a cradle unit which further provides data processing, communication and/or display in addition to that provided by the operation of the microchip and base unit.

9. – 12. (Canceled).

13. (Currently amended) A method for making a physiological test and/or delivery of drugs comprising:

providing an oral platform;

collecting saliva or breath through the oral platform;

delivering collected saliva or breath to a microchip mounted on or in the platform,

the microchip comprising at least one of a lab-on-a-chip system and a smart dispenser;

making a medical diagnosis from collected samples of saliva or breath and/or delivering drugs through the platform;

~~communicating the microchip with a base unit; and~~

providing a plurality of platforms, microchips, and sticks as an integral unit including as a plurality of lollipops and interchangeably communicating [[a]] the plurality of lollipops with the a base unit for performing a plurality of medical diagnoses and/or drugs deliveries through the plurality of platforms.

14. – 15. (Canceled).

16. (Previously presented) The method of claim 13 further comprising performing data processing, communicating data, and/or displaying data from the microchip through a cradle unit, which data processing, communicating data, and/or displaying data is not performed by the microchip.

17. – 18. (Canceled).

19. (Currently amended) A method for making a physiological test and/or delivery of drugs comprising:

providing an oral platform;

collecting saliva or breath through the oral platform;

delivering collected saliva or breath to a microchip mounted on or in the platform,

the microchip comprising at least one of a lab-on-a-chip system and a smart dispenser;

making a medical diagnosis from collected samples of saliva or breath and/or delivering drugs through the platform; and

where making a medical diagnosis from collected samples of saliva or breath comprises making the medical diagnosis within the platform, microchip, and/or stick combined in an integral lollipop unit in combination with a base[[d]] unit communicated to the lollipop unit; and

interchanging a plurality of lollipops with the base unit for making a corresponding plurality of different medical diagnoses.

20. – 44. (Canceled).

45. (Currently amended) A system for analysis of oral fluid comprising:

a biometric device for collecting and analyzing the oral fluid;

an oral device combined with the biometric device to facilitate oral use, the oral device being substantially enclosed in a shell;

a handle coupled to the oral device to provide mechanical support so that the oral device, biometric device and handle collectively comprise a lollipop-like assembly; and

a base unit adapted to be selectively and interchangeably communicated with any one of a plurality of different lollipop assemblies, wherein the base unit communicated with the corresponding biometric device in the corresponding one of the plurality of different lollipop assemblies is configured for controlling the biometric device and for performing at least one of a plurality of bioassays through use of the corresponding biometric device.

46. (Previously presented) The system of claim 45 where the biometric device as controlled by the base unit performs a bioassay that monitors physical phenomena including temperature, viscosity, suction strength, saliva flow, or oral activity.

47. (Previously presented) The system of claim 45 where the biometric device as controlled by the base unit performs a bioassay that includes colorimetric bioassay, absorbance, titrations, electrochemical bioassay, optical scattering, immunoassays, or separations including electrophoresis and chromatography.

48. (Previously presented) The system of claim 45 where the biometric device is arranged and configured to provide sustained collection of saliva, to obtain higher

patient acceptance of collection of saliva, and to preprocess the saliva during collection of saliva.

49. (Previously presented) The system of claim 48 further comprising a filter and preservation means for preserving the saliva, where the saliva passes through the filter and is combined with preservatives by the preservation means during collection.

50. (Previously presented) The system of claim 45 further comprising means for delivering drugs.

51. (Previously presented) The system of claim 50 where the means for delivering drugs is controlled to provide timed drug delivery.

52. (Currently amended) The system of claim 45, wherein the shell comprises further-
comprising a coating adapted to aid the bioassay performed by the biometrics device.

53. (Currently amended) The system of claim 45, wherein the shell comprises further-
comprising a coating to stimulate salivary action, stimulate a specific target response in the body, or acts as a calibrant to the bioassay.

54. (Currently amended) The system of claim 45, wherein the shell comprises further-
comprising a coating to adjust the time that the oral fluid is transferred between the

mouth and the biometric device by means of different ~~thicknesses, densities~~ thickness, density, or resistance to saliva of the coating.

55. (Previously presented) The system of claim 45 further comprising a kit comprised of multiple lollipop assemblies for use in a corresponding multiple of bioassays to provide redundancy over time.

56. (Previously presented) The system of claim 45 further comprising means for inducing a physical change in a patient.

57. (Previously presented) The system of claim 56 where the means for inducing a physical change in a patient comprises a heater, one or more electrodes, or an antenna for RF microwave stimulation.

58. (Previously presented) The system of claim 45 further comprising means for imaging tissue.

59. (Previously presented) The system of claim 58 where the means for imaging tissue comprises a microscope, an endoscope, an ultrasound imaging device, or a microwave imaging device.

60. (Currently amended) The system of claim 45 further comprising a transceiver and an antenna for wireless transmission and wireless programming of the biometric[[s]] device.

61. (Previously presented) The system of claim 45 further comprising an external instrument designed to aid and enhance the utility of the system for downloading data from the biometric device, for logging or analysis, to provide power and control over the biometric device, and/or to draw fluid from the biometrics device.

62. (Previously presented) The system of claim 45 where the biometric device is arranged and configured to perform diagnostics, population tests, long term tests, monitor therapeutics, and/or deliver therapeutics over time.

63. (Currently amended) The system of claim 45 where the biometric device is used to detect analytes related to tooth decay or periodontal disease.

64. (Previously presented) The system of claim 45 where the biometric device is arranged and configured for sustained data collection of oral fluid with patient acceptance and simplicity of application.

65. (Previously presented) The system of claim 45 where the biometric device is arranged and configured to test for the presence of a therapeutic agent or a secondary

agent that correlates to a therapy during the course of treatment to provide information about the correct dosing and effects of therapy.

66. (New) The apparatus of claim 1, wherein the shell is a dissovable candy shell configured to stimulate salivary action.

67. (New) The apparatus of claim 1, wherein at least one of the oral platform and the microchip is configured to control fluids using magnetohydrodynamic (MHD) fluidics.

68. (New) The apparatus of claim 1, wherein the base unit comprises an interface for interchangeably interfacing with a plurality of different lollipops, and wherein the base unit is configured to provide mechanical support for one or more of the plurality of different lollipops.

69. (New) The apparatus of claim 68, further comprising a cradle unit that further provides data processing, communication and/or display in addition to that provided by the operation of the microchip and base unit.

70. (New) The method of claim 13, further comprising providing an edible shell substantially enclosing the microchip, the edible shell configured to dissolve in a patient's mouth.

71. (New) The method of claim 13, further comprising providing fluid control using magnetohydrodynamic (MHD) fluidics.

72. (New) The method of claim 19, further comprising providing an edible shell substantially enclosing the microchip, the edible shell configured to dissolve in a patient's mouth.

73. (New) The method of claim 19, further comprising providing fluid control using magnetohydrodynamic (MHD) fluidics.

74. (New) The system of claim 45, wherein the biometric device comprises a microchip having at least one of a lab-on-a-chip system and a smart dispenser.

75. (New) The system of claim 74, wherein the shell is an edible shell configured to dissolve in a patient's mouth.

76. (New) The system of claim 45, wherein at least one of the biometric device and the oral device is configured to control fluids using magnetohydrodynamic (MHD) fluidics.